Core Performance

Strength, confidence and security...from the core.

Questions & Answers
1. Why is MultiCore available in the consistencies HB and Flow?

There are two ways of fabricating a core build-up:

a. A matrix band is placed around the prepared tooth, and the form created is filled with a flowable composite. For this technique, MultiCore Flow has been developed.

b. The second way of fabricating a core build-up involves the use of a highly filled, preferably stick-free composite, which is applied to the remaining tooth structure using a hand-held instrument. The same or and another instrument is subsequently used to mould and shape the composite core. If this technique is used, MultiCore HB is the material of choice.

When fabricating a core build-up using MultiCore, the dental professional may thus use his/her preferred technique or the technique best suited to the clinical situation.

2. Why is MultiCore offered in three different shades (light, medium and blue)?

The shade selected for the composite core is strongly dependent on the type of prosthetic restoration that has been chosen:

- If the final restoration is an all-ceramic restoration, a tooth-coloured material such as MultiCore light or medium is required.

- If metal constructions or metal-based, veneered restorations have been chosen, the shade of the core build-up is not as important. The blue shade provides a good contrast to the natural tooth structure and facilitates final crown preparation.

3. Apart from AdheSE, which Ivoclar Vivadent adhesives may be used in conjunction with MultiCore?

Apart from the self-etching, light-curing AdheSE, the popular light-curing adhesives Syntac and Excite as well as the dual-curing adhesives Excite DSC and AdheSE DC are also suitable.

4. How can MultiCore HB be optimally mixed?

MultiCore HB is best mixed using the enclosed green plastic spatula.

In contrast to conventional dental cements, the components are **not stirred** to mix them but kneaded together.

For this purpose, place two equal portions of base and catalyst on top of each other.

Then press the components together using the spatula.
Subsequently, blend the pastes with the spatula by “folding” the two parts together until a homogenous mix is achieved.

5. Can MultiCore HB also be mixed with a metal spatula?
If the pastes are mixed using a metal spatula, grey shading may result due to contamination with abraded metal particles. Cautious kneading may reduce the discoloration. The spatula used should not be too flexible.

6. Can the Virtual® or Systemp® Dispenser also be used for MultiCore?
No. The Systemp Dispenser is designed for cartridges of 50 ml and mixing ratios of 1:4 and 1:10. The Virtual Dispenser is suitable for 50 ml cartridges and mixing ratios of 1:1 and 1:2.

MultiCore Flow is supplied in cartridges of 25 ml, as for core build-ups less material is required than for impressions. MultiCore Flow is mixed at a ratio of 1:1, thus the MultiCore Dispenser must be used.

Other currently available composite core build-up materials, such as Luxacore, Rebilda DC, ParaCore, etc, are offered in the same 25 ml cartridges. Thus MultiCore Flow may also be extruded using the dispensers supplied with these materials.

7. Which mixing tips must be used with MultiCore Flow?
The MultiCore Flow delivery forms contain the matching mixing tips. They feature a light-blue base and an intra-oral tip may be attached to their tip.
Basically, the yellow mixing tips used for Virtual may also be employed. However, they increase material waste per application.

8. How can larger amounts of MultiCore Flow be extruded?
Larger amounts of material can be extruded if the intra-oral tip is shortened by approx 1 mm. More vigorous pressing of the dispenser lever has no effect.

9. Can MultiCore Flow also be used for cementing endodontic posts?
Yes, MultiCore Flow is released for luting fibre reinforced posts.
With the “Total Etch” protocol it is recommended to use Excite DSC as an adhesive.

In future also the self-etching adhesive AdheSE in combination with the DC-Activator can be used. For the application of Primer and Bonding the violet Vivadent Applicator small (Endo) should be used.

10. Why is composite a more suitable core build-up material than metal-reinforced glass ionomer cement?
Composites offer better physical properties and achieve higher bond strengths to dentin than metal-reinforced glass ionomer cements. This has also been confirmed by professional and scientific circles.

[Kostka, E. Roulet, J.-F.; The root filled tooth in prosthodontic reconstruction; Textbook of Endodontontology, Blackwell Munksgaard 2003]